

Supporting Table 4: Fitting results for behavioral model with social learning but no feedback under 5 risk evolution curves.

Model-1		
	Pertussis	Measles
ω_{pre}	0.1	0.1
Gamma	1.59E-05	0.0011
σ	0.001	0.001
$D_{decrease}$	5	10
MLE	2.58E-08	4.01E-11
GOF	-8.3434	-350.196
AICc	46.0212	59.8798

Model-2		
	Pertussis	Measles
ω_{pre}	0.1	0.1
Gamma	1.58E-05	0.0011
σ	0.001	0.001
D_{max}	4	4
MLE	3.59E-08	3.95E-11
GOF	-8.1746	-350.5707
AICc	42.0021	56.0936

Model-3		
	Pertussis	Measles
ω_{pre}	0.1	0.1
Gamma	1.53E-05	0.0011
σ	0.001	0.001
D_{max}	2.9806	9.552
$D_{decrease}$	6.0194	0.3218
MLE	2.63E-08	1.22E-10
GOF	-8.3348	-325.114
AICc	49.911	62.3235

Model-4		
	Pertussis	Measles
ω_{pre}	0.1	0.2477
Gamma	1.53E-05	0.0011
σ	0.001	0.001
$D_{increase}$	3	2.4293
D_{max}	6.002	8.5707
MLE	3.88E-08	3.00E-10
GOF	-8.1339	-306.07
AICc	49.1276	60.5184

Model-5		
	Pertussis	Measles
ω_{pre}	0.1	0.1
Gamma	1.38E-05	0.0011
σ	0.001	0.001
$D_{increase}$	3	3.0011
D_{max}	10	6.3901
$D_{decrease}$	10	0.0927
MLE	1.25E-07	9.47E-11
GOF	-7.5597	-330.6411